

Ivan Kovalenko

Senior Go Engineer · Tech Lead

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Availability: Remote · Contract · Open to contract work

SUMMARY

Backend engineer with 8+ years in production development, 5+ of them in Go. Since October 2022 I have been the technical owner of a high-throughput event-processing platform: architecture, reliability, delivery and mentoring. I also built the platform's AI layer – an MCP server that gives LLM agents grounded, permission-scoped access to code, logs, traces, CI and deployments, plus the workflow in which agents take bounded tasks and humans review.

Key facts: 8+ years in engineering · 5+ years in Go · 4M+ events processed daily · 80+ MCP tools for AI agents

EXPERIENCE

UBIC.tech · Event-processing and monitoring platform Oct 2022 – present
Senior Backend Engineer (Go) · de facto Tech Lead · Full-time

Technical owner of the Go backend of a high-throughput event-processing platform and of the internal engineering platform around it.

- Owned distributed event-processing services at 4M+ events/day: architecture, SLA ownership, incident response
- Built an MCP server with 80+ read-only tools that gives AI coding agents grounded access to code navigation, logs, traces, CI, tests, deployments and the task tracker – with per-connection scopes and untrusted-data handling
- Led decomposition of a monolithic backend into microservices; defined service boundaries and contracts (HTTP/OpenAPI, RabbitMQ)
- Mentored 3+ Go engineers to independent service ownership; introduced architecture review practice adopted across teams
- Designed the agent delivery workflow: task queue with per-agent claims, generated task briefs, verification gates before review; agents (Claude) execute bounded tasks, engineers review
- Extracted product services into a shared Go core library with thin product wrappers – extension points instead of forks, behaviour parity proven with golden-file tests
- Designed async ingestion with RabbitMQ and Redis queues, separating write and delivery paths under burst load; built deduplication guarantees (send-once gates, idempotent storage)
- Built observability from scratch: metrics, distributed tracing, logs in Elasticsearch/ClickHouse, alerting, on-call runbooks
- GitOps delivery on Kubernetes with Argo CD and Kargo promotions; zero-downtime rollouts and CI/CD in GitLab
- Built platform diagnostics: stand health, release readiness, DORA metrics, incident-investigation playbooks
- Designed ClickHouse schemas for high-ingestion analytics; tuned PostgreSQL query plans and data models

Stack: Go, PostgreSQL, ClickHouse, Redis, RabbitMQ, Kubernetes, Argo CD, Kargo, MCP, LLM agents, OpenTelemetry

VK · One of Russia's largest internet platforms Jul 2023 – Oct 2023
Go Developer · Short-term contract

Short-term engagement on internet-scale backend services.

- Worked on high-load backend services under sustained production traffic
- Optimized cross-service data flows to reduce processing latency

Stack: Go, High load

Ufanet · Major regional internet service provider
Go Developer · Full-time

Oct 2021 – Oct 2022

Backend services and analytics infrastructure for ISP data.

- Designed and optimized ClickHouse + PostgreSQL analytics pipelines for large volumes of ISP data
- Built backend APIs and data-processing services; raised throughput under growing production load

Stack: Go, ClickHouse, PostgreSQL

NIISTIS · Research institute, enterprise systems
Software Engineer · Full-time

Dec 2020 – Oct 2021

Backend services and business logic for enterprise systems.

- Developed backend services and the MySQL storage layer in Go and C

Stack: Go, C, MySQL

Myagkovtorg LLC

Jan 2018 – Dec 2020

Software Engineer · Full-time

Full-cycle backend, third-party integrations and IoT automation.

- Built IoT automation modules and hardware integrations in C; backend services and third-party API integrations

Stack: C, Go, IoT

SKILLS

Languages: Go, C, SQL

Data: PostgreSQL, ClickHouse, Redis, MySQL, Elasticsearch

Messaging & architecture: RabbitMQ, Event-driven, Microservices, Async pipelines, Idempotency & dedup

Infrastructure: Kubernetes, Docker, Argo CD, Kargo, GitLab CI, Nginx

Observability: Metrics, Distributed tracing, Alerting, Grafana, Runbooks

AI engineering: MCP servers, Claude / LLM agents, Agent workflows, Prompt & context design

Leadership: System design, Architecture review, Mentoring, Incident management

Spoken languages: Russian – Native